

CLAIMS

1. A system for automatically updating a MIB of an agent by using a meta MIB in a Simple Network Management Protocol (SNMP) based network having the agent and a Network Management System (NMS) therein, the system comprising:
  - 5 an agent for generating an OID named as MIB\_Info\_Last\_Change\_Time, storing it in the MIB and synchronizing the meta MIB by transmitting a Trap when MIB\_Info\_Last\_Change\_Time is changed; and
  - 10 an NMS, in case a trap is inputted to the NMS, for reading an information in a meta MIB\_Info to SNMP Walk Operation, rewriting a meta MIB information of the agent based on the read information, storing the meta MIB information in the MIB and transmitting the meta MIB information to the agent.
2. A method for automatically updating a Management Information Base (MIB) information between a Network Management System (NMS) having a MIB and an agent having a MIB by using a meta MIB, the method comprising the steps of:
  - 15 rendering the agent to check whether MIB\_Info\_Last\_Change\_Time is changed or not;
  - 20 transmitting a trap generated by the agent to the NMS in case MIB\_Info\_Last\_Change\_Time is changed, while returning to the rendering step in case MIB\_Info\_Last\_Change\_Time is not changed;
  - making the NMS request a Walk Operation on the MIB information, followed by receiving the trap from the agent; and
  - 25 letting the agent rewrite and store the MIB information through result of the Walk Operation.